

JOSHUA LEDERBERG

Rockefeller University
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Education

- 1938-41 Stuyvesant High School (New York City)
- 1941-44 B.A., Columbia College
- 1944-46 Enrolled as medical student, Columbia University College of Physicians and Surgeons
- 1946-47 Ph.D., Yale University.

Honorary Degrees:

- M.D. Turin (1969); Tufts (1985)
- Sc.D. Yale (1960); Wisconsin (1967); Columbia (1967); Yeshiva (1970)
 Mt. Sinai (1979); Rutgers (1981); NYU (1984)
- Litt.D. Jewish Theol. Sem. (1979)
- LL.D. Penna. (1979).
- D. Phil. Tel-Aviv (1991)
- Dr. Mil. Med. USUHS (1998)

Experience

- 1945-46 Research assistant in zoology (with Professor F. J. Ryan),
 Columbia University
- 1946-47 Research fellow of the Jane Coffin Childs Fund for Medical
 Research at Yale University (with Professor E. L. Tatum)
- 1947-59 Professor of Genetics, University of Wisconsin
- 1950 Visiting Professor of Bacteriology,
 University of California, Berkeley
- 1957 Fulbright Visiting Professor of Bacteriology,
 University of Melbourne, Australia
- 1957-59 Chairman, Department of Medical Genetics,
 University of Wisconsin, Madison
- 1959-78 Professor of Genetics (also Biology, Computer Science) and
 Chairman, Dept. Genetics
 Stanford University School of Medicine
- 1978-90 President, The Rockefeller University, New York City
- 1990- University Professor-emeritus, "" "" & Sackler Foundation Scholar

Fields of Interest:

- Genetics, chemistry and evolution of DNA,
 of unicellular organisms and of man.
- Computer models of scientific reasoning; expert systems
- Exobiology, origin of life.
- Applications of scientific understanding to direction
 of research and to public health and policy.

Distinctions:

- 1957 National Academy of Sciences, U.S.
- 1958 Nobel Prize in medicine (for studies on organization of the genetic material in bacteria)
- 1979 Royal Society of London, For. Member.
- 1980 Hon. Life member, N.Y. Acad. Sci.; 1994-5 Chairman
- 1981 Hon. Fellow, N.Y. Acad. Medicine
- 1982 Fellow, AAAS; Am Phil Soc; Am Acad Arts Sci
- 1983 Hon. Member AOA (medical honorary society)
- 1984 IEEE Centennial award
- 1989 US National Medal of Science
- 1993 Founding Member, Academie Universelle des Cultures
- 1993 Commandeur, L'ordre des arts et des lettres (Republique Francaise)
- 1995 Allen Newell Award, Association for Computing Machinery
- 1996 N.Y. Acad Med. - John Stearns Award for Lifetime Achievement
- 1997 Nat Found Inf Dis: Maxwell Finland Award
- 1997 NYC: Mayor's award in Science and Technology

1988 Columbia P&S Distinguished Service Medal

1961 Columbia: Alexander Hamilton Award

Yale: Wilbur Cross Medal

Sigma Xi: Procter Medal

Military Service

1943-45 US Navy (V-12 and Hospital Corps; Ens. USNR)

Public responsibilities:

- 1950- President's Science Advisory Committee panels; NIH; NSF study sections (genetics); OTA
- 1958-77 National Academy of Sciences committees on space biology
- 1960-77 NASA committees; Lunar and Planetary Missions Board
- 1961-62 President (Kennedy)'s Panel on Mental Retardation
- 1967-71 NIMH National Mental Health Advisory Council
- 1970-73 US Arms Control and Disarmament Agency, Consultant
- 1979-81 President's Cancer Panel, Chairman
- 1979- US Defense Science Board.
- 1981- USN: CNO Executive Panel
- 1985-95 Council of Scholars, US Library of Congress
- 1987-88 Commission on Integrated Long Range Strategy
- 1988-95 Member, Chair Technology Assessment Advisory Council, OTA, US Congress
- 1990-94 Member, Advisory Board, US Secretary of Energy
- 1993-97 Advisory Committee to the Director, NIH
- 1993-97 Risk Assessment and Management Commission
- 1995-98 FBI, DNA Advisory Board -- chair

1971-76,93- ... World Health Organizn., Adv. Committee for Medical Research
 1985- UNIDO - Science Advisory to Intl. Center Genetic Eng'g Biot'y

1988-93 Carnegie Corp: Chair, Commission on Science,
 Technology and Government

1966-71 Columnist (Washington Post Syndicate) "Science and Man"

- Board of Governors, Weizmann Inst., Rehovoth, Israel
 1972- Annual Reviews, Inc. (1976- Chmn., Bd of Trustees)
 1972-84 Bd. of Trustees, Natural Resources Defense Council
 1975-81 Bd. dirs., Center for Advanced Study in the Behavioral Sciences, Stanford, Ca.
 1978-80 Council, Institute of Medicine, Nat. Acad. Sci.
 1978- Bd. dirs., Charles Babbage Institute (Computing History) Minneapolis, Minn.
 1979- Adjunct Professor of Genetics, Cornell Medical College, N.Y.
 1990- Adjunct Professor of Biological Sciences, Columbia University
 1991- Consulting Professor of Computer Science, Stanford
 1998- Senior Associate, Center for International Security, Stanford
 1979-80; 84-86 Fellow, New York Institute of Humanities.
 1980- Bd. dirs., Chemical Industry Institute for Toxicology: Res. Tr. Pk, NC.
 1981-87 Bd. Sponsors., Bulletin of Atomic Scientists
 1979- Trustee, Sackler Medical School, Tel-Aviv Univ., Israel
 1983- Trustee, Camille and Henry Dreyfus Foundation, N.Y.
 1984-87 Trustee, Conservation Foundation, Washington)
 1984-87 Trustee, Clean Sites, Inc., Washington
 1985-88 Director, New York City Partnership,
 1985-93 Trustee, Carnegie Corporation, NYC.
 1986- Director, Corp. for National Research Initiatives, Washington
 1986-93 Trustee, Revson Foundation, NYC
 1988-93 Trustee, Center for Strategic & International Studies, Wash
 1989-98 Director, Council on Foreign Relations, N.Y.
 1990-96 Trustee, American Type Culture Collection. Washington
 1993-96 Advisory Board, Soros Fn./Intl. Sci. Fn. - fSU

Corporate affiliations:

1984-95 Board of Directors, Procter & Gamble Inc., Cincinnati, Ohio

Scientific consulting practice, part-time

Personal Data

b. May 23, 1925 Montclair, N.J.
 m. April 5, 1968 Marguerite Stein Kirsch (M.D., Yale, 1961)
 ch: David Kirsch (foster son) b. Nov. 4, 1964
 Anne Lederberg b. May 6, 1974.